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- (71) Applicant (for all designated States except US): INSTITUT "JOŽEF STEFAN" [SI/SI]; Jamova 39, 1000 Ljubljana (SI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PIRŠ, anez [SI/SI]; Jadranska 6, 1000 Ljubljana (SI). PIRŠ, Silva [SI/SI]; Jadranska 6, 1000 Ljubljana (SI). MARIN, Bojan [SI/SI]; Topniška 43, 1000 Ljubljana (SI). BLINC, Robert [SI/SI]; Kumanevska 1, 1000 Ljubljana (SI). ČOPIČ, Martin [SI/SI]; Pleteršnikova 15, 1000 Ljubljana (SI). PETKOVŠEK, Rok [SI/SI]; Plevančeva 18, 1000 Ljubljana (SI).

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(54) Title: PROCESS FOR THE MANUFACTURING OF THE POLYMER COMPENSATION LAYER FOR LCD OPTICAL LIGHT SHUTTER AND THE CONSTRUCTION THEREOF

(57) Abstract: This invention solves the technical problem of compensating for the angular dependence of the contrast in optical devices comprising liquid crystal displays (LC optical light shutters, which operate on the principle of electrically controlled optical birefringence), with the aid of a compensation layer exhibiting optically negative birefringence, which enables the angular compensation of the LC layer birefringence in the state in which the LC molecules are homeotropically aligned (typical optically positive birefringence). The process for the manufacture of the optically negatively birefringent compensation layer is devised on the controlled spontaneous deformation of the polymer molecules during the polymerization procedure. The manufacturing process is feasible by the employment of known and well-controllable technical procedures, and enables the mass production of compensation layers. The invention solves the problem of manufacturing a compensation layer exhibiting the required optically negative birefringence, as well as the construction/manufacturing of the optical light shutter, which utilizes such a compensation film.

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